

DIAGRAM OF CAM AND SRAM DATA CONFIGURATION

FIG. 3

(2)	CoS CHARACTERISTIC NUMBER	CoS CHARACTERISTIC NUMBER	CoS CHARACTERISTIC NUMBER		CoS CHARACTERISTIC NUMBER
(4)	END ADDRESS	END ADDRESS	END ADDRESS		END ADDRESS
(3)	START ADDRESS	START ADDRESS	START ADDRESS	~	START ADDRESS
(2)	OUTPUT PORT CoS NUMBER	OUTPUT PORT CoS NUMBER	OUTPUT PORT CoS NUMBER		OUTPUT PORT CoS NUMBER
(1)	OUTPUT PORT	OUTPUT PORT	OUTPUT PORT		OUTPUT PORT
,	0	_	2	••	Σ

CONVERSION TABLE

FIG. 4

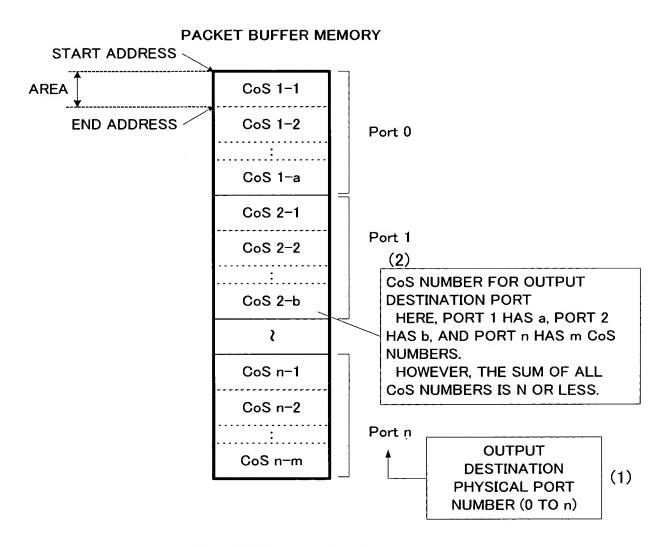


DIAGRAM OF PACKET BUFFER CONFIGURATION

FIG. 5

0	CHARACTERISTIC CONTENTS (LOSS/ERROR INSERTION/DELAY INSERTION/REROUTING ETC)
	CHARACTERISTIC CONTENTS (LOSS/ERROR INSERTION/DELAY INSERTION/REROUTING ETC)
2	CHARACTERISTIC CONTENTS (LOSS/ERROR INSERTION/DELAY INSERTION/REROUTING ETC)
	\
>	CHARACTERISTIC CONTENTS (LOSS/ERROR INSERTION/DELAY INSERTION/REROUTING ETC)

CoS CHARACTERISTIC TABLE

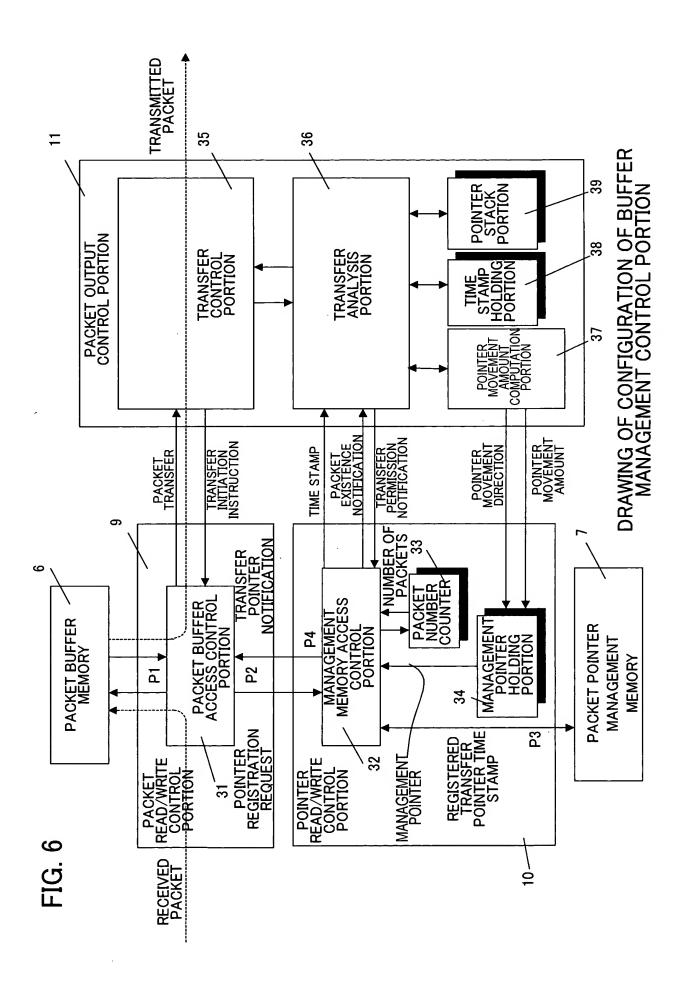
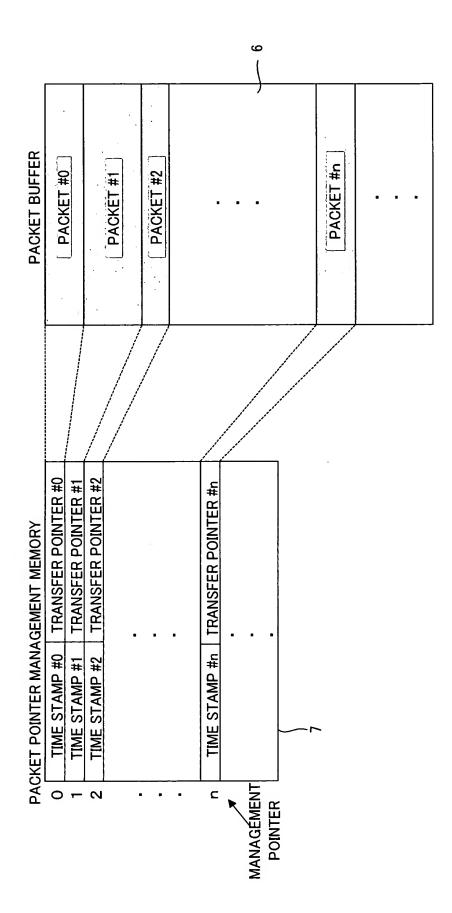
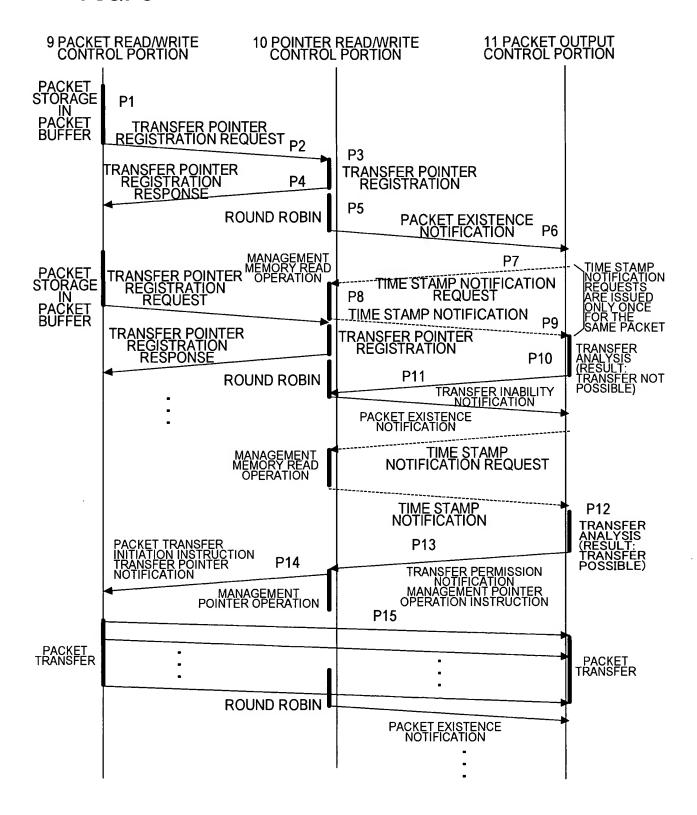


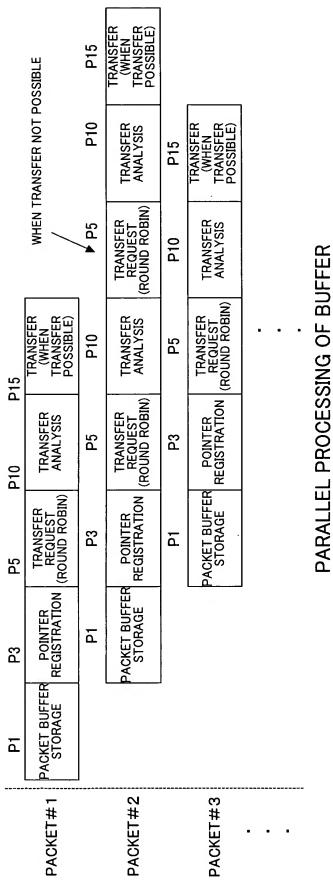
FIG. 7



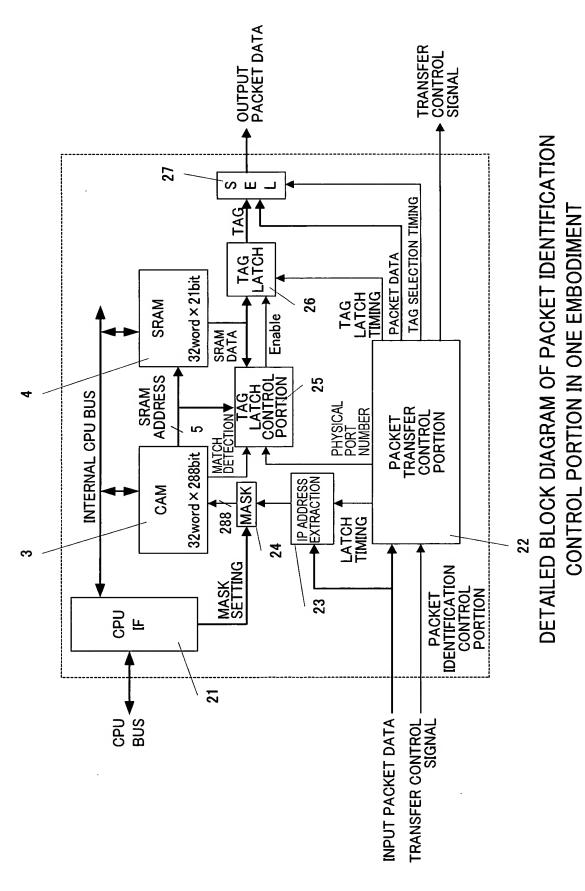
RELATION BETWEEN POINTER MANAGEMENT MEMORY AND PACKET BUFFER

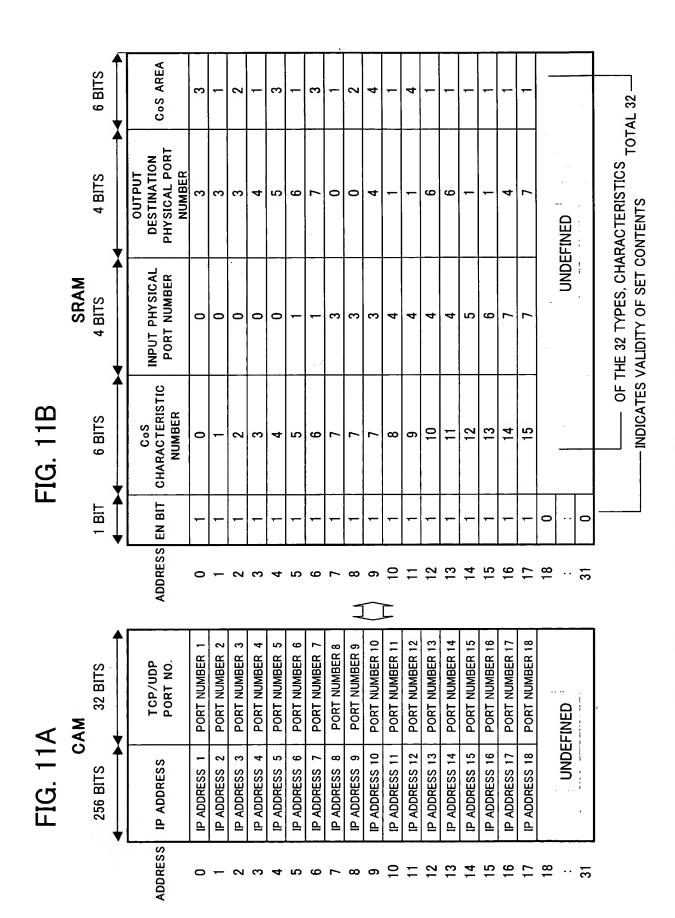
FIG. 8





ARALLEL PROCESSING OF BUFFER MANAGEMENT CONTROL





CONTENTS OF CAM AND SRAM DATA IN ONE EMBODIMENT

FIG. 12A

FIG. 12B

(a) SMALLEST PARTITIONS OF CoS AREAS (b) ACTUAL ALLOCATION FOR SRAM SETTINGS

_	-	2	-		4	-		_	_	•	n		_	6	7	_		٧	r		_		က		-	-	_		က		<u> </u>	_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
PACKET BUFFER MEMORY	CoS 0	CoS 1	CoS 0		CoS 1	-		CoS 2	CoS 3	(Cos O		CoS 1	600	2 500	CoS 0		1000	- 220		CoS 2		CoS 0		CoS 0	CoS 1	CoS 2		CoS 0		CoS 1	OUTPUT DESTINATION	CoS AREA COS AREA
	•	Porto				Port			-	•		Port3			•	<u> </u>		Port4			→	•	Port5	→	~	Port6	•	•	Port7		→	ُر	(
															$\left\{ \right.$	<u>^</u>	}																
PACKET BUFFER MEMORY	0	9	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		30	31 /		Cos unit number—/
END ADDRESS	01FFFFFh	03FFFFFh	07FFFFFh	09FFFFF	0AFFFFFh	0CFFFFFh	0EFFFFFh	11FFFFFh	13FFFFFh	15FFFFFh	1 /FFFFFh	19FFFFFh	1 AFFFFFh	1CFFFFFh	1EFFFFFh	21FFFFFh	23FFFFFh	25FFFFFh	27FFFFFh	29FFFFFh	2AFFFFFh	2CFFFFFh	2EFFFFFh	31FFFFFh	33FFFFFh	35FFFFFh	37FFFFFh	39FFFFFh	3AFFFFFh	3CFFFFFh	3EFFFFFh		Cos UNIT
ESS	40000000	0200000h 0400000h	00000000	080000h	0A00000h	0C00000h	0E00000h	100000h	120000h	140000h	1600000h	1800000h	1 A00000h	1C00000h	1E00000h	200000h	220000h	240000h	260000h	2800000h	2A00000h	2C00000h	2E00000h	300000h	320000h	3400000h	360000h	3800000h	3A00000h	3C00000h	3E00000h		

DIAGRAM OF ALLOCATION OF PACKET BUFFER MEMORY IN ONE EMBODIMENT

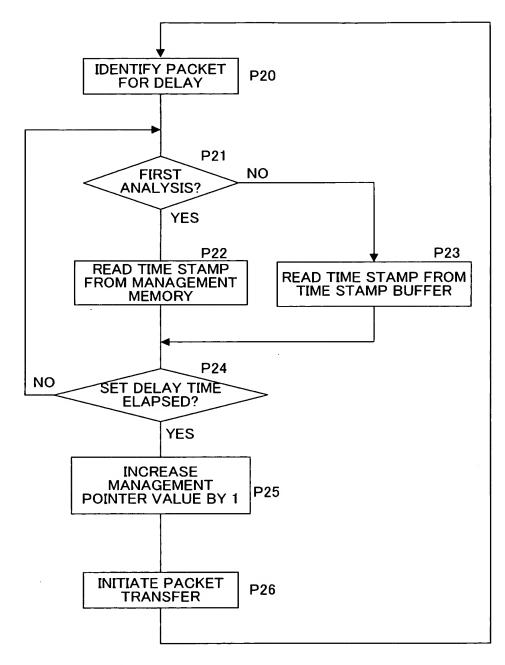
2		PACKET LOSS	ER	ERROR INSERTION		PACKET DUPLICATION	DE	DELAY INSERTION
NO.	EN	LOS FRACTION	EN	ERROR RATE	EN	DUPLICATION RATE	EN	DELAY TIME
0	0	-	0	_	0	-	1	100ms
1	0	-	0	_	0	-	1	1ms
2	0	1	0	_	0	-	1	50ms
3	0	_	1	10%	0	-	0	-
4	0	1	1	20%	0	1	1	100ms
5	0	_	1	30%	0		1	1ms
9	0	1	1	40%	0	1	1	300ms
7	0	•	1	20%	1	10%	1	1ms
8	0	1	1	20%	1	10%	0	-
9	-	10%	1	50%	-	10%	-	800ms
10	-	10%	1	50%	1	20%	0	•
11	-	10%	0	-	-	20%	0	1
12	1	20%	0	-	-	20%	0	_
13	-	20%	-	10%	-	20%	0	1
14	1	20%	1	20%	-	30%	0	-
15	1	20%	0	-	0	1	0	1
16								
:				UNDEFINED	FIRE	Ω		
31								

CONTENTS OF CoS CHARACTERISTIC TABLE IN ONE EMBODIMENT

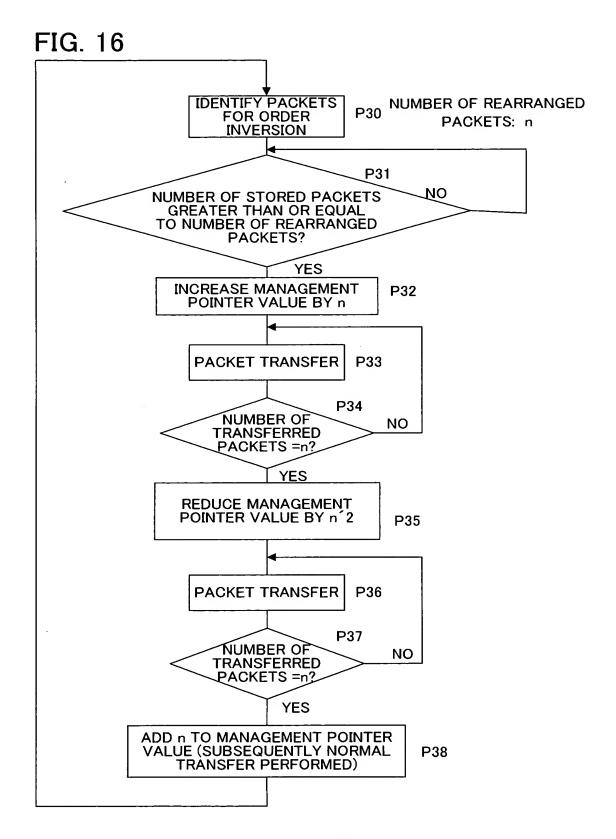
	OUTPUT DESTINATION	0 0			
No.	PHYSICAL PORT NUMBER	DEW COS NUMBER	ADDRESS	END ADDRESS	COS CHARACIERISTIC NUMBER
0	0	0	40000000	01FFFFFh	7
1	0	1	40000020	чэээээо	7
2	•	0	40000090	4333340	8
3	1	1	40000080	0EFFFFFh	6
4	1	2	40000001	1155556	12
5	ļ	3	1200000	13FFFFh	13
9	3	0	1400000h	196666	0
7	3	1	1A00000h	1AFFFFFh	1
8	3	2	1C00000h	455551	2
6	4	0	200000h	21FFFFFh	3
10	4	1	2200000h	29FFFFFh	7
11	4	2	2A00000h	2AFFFFh	14
12	5	0	4000002Z	31FFFFFh	4
13	9	0	320000h	ззғғғғ	5
14	9	1	3400000h	35FFFFPh	10
15	9	2	40000098	37FFFFFh	11
16	7	0	40000088	3CFFFFFh	9
17	7	1	3E00000h	3EFFFFF	15
18					
			UNDEFINED		•
31					

CONTENTS OF CONVERSION TABLE IN ONE EMBODIMENT

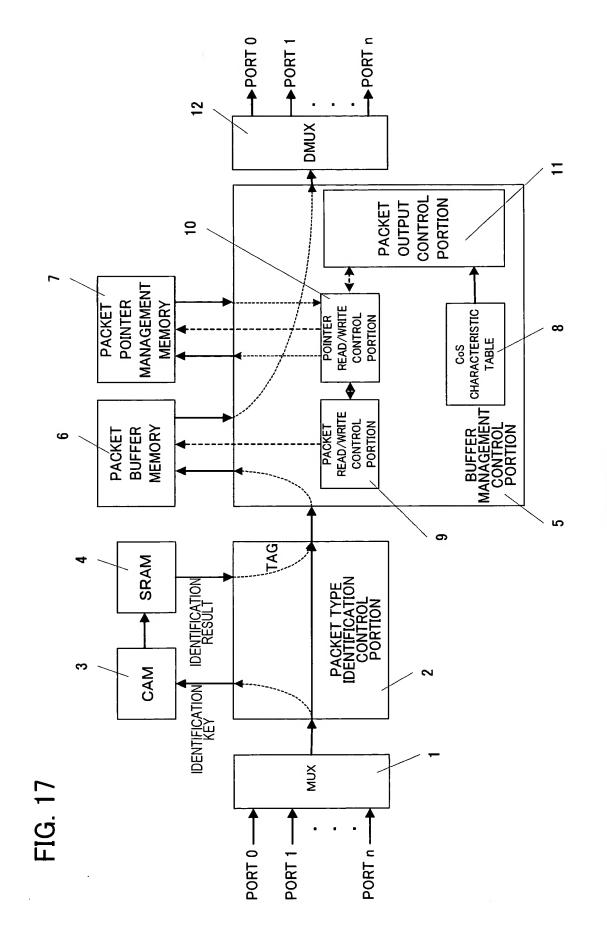
FIG. 15



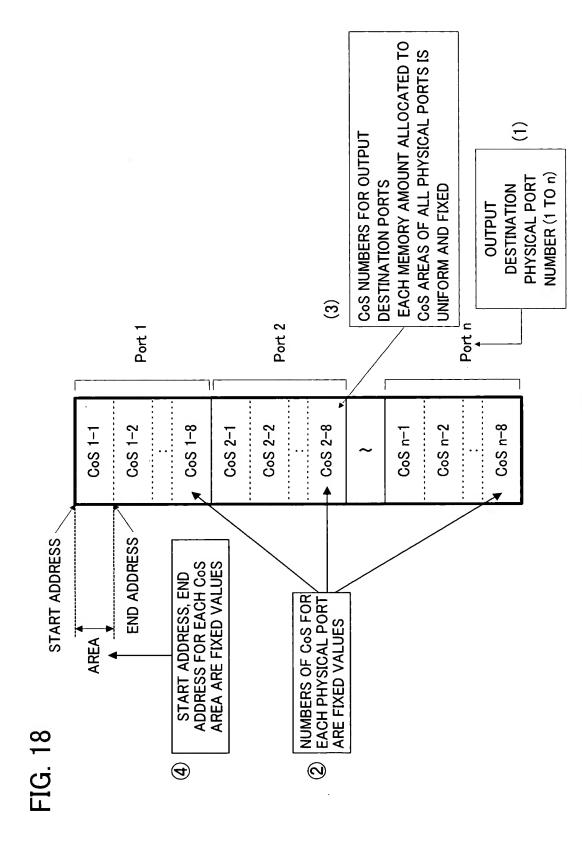
FLOWCHART OF OPERATIONS IN PACKET DELAY



FLOWCHART OF OPERATIONS IN PACKET ORDER INVERSION/ REROUTING



PRIOR ART



PRIOR ART